

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/563,414  
Source: IFWP  
Date Processed by STIC: 1/13/06

# ***ENTERED***



IFWP

## RAW SEQUENCE LISTING

DATE: 01/13/2006

PATENT APPLICATION: US/10/563,414

TIME: 10:13:27

Input Set : N:\DA\PTO.DA.txt

Output Set: N:\CRF4\01132006\J563414.raw

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3 <110> APPLICANT: BRIAND, JEAN-PAUL
4      BOULANGER, PIERRE
5      BOULANGER, SAW SEE
6      FRENKEL, VALERIE
7      GUILLET, JEAN-GERARD
8      BLONDEL, ARMELLE
9      LENGAGNE, RENEE
11 <120> TITLE OF INVENTION: NOVEL IMMUNE BOOSTER COMPOUND, COMPOSITIONS COMPRISING THE
12      SAME AND METHODS USING SAID BOOSTER COMPOUND.
14 <130> FILE REFERENCE: CHEP:016US
C--> 16 <140> CURRENT APPLICATION NUMBER: US/10/563,414
17 <141> CURRENT FILING DATE: 2006-01-03
19 <150> PRIOR APPLICATION NUMBER: PCT/FR2004/050308
W--> 20 <151> PRIOR FILING DATE: 2004-07-02
22 <150> PRIOR APPLICATION NUMBER: FR 03/08239
W--> 23 <151> PRIOR FILING DATE: 2003-7-04
25 <160> NUMBER OF SEQ ID NOS: 3
27 <170> SOFTWARE: PatentIn Ver. 2.1
29 <210> SEQ ID NO: 1
30 <211> LENGTH: 581
31 <212> TYPE: PRT
32 <213> ORGANISM: Adenovirus type 5
34 <400> SEQUENCE: 1
35 Met Lys Arg Ala Arg Pro Ser Glu Asp Thr Phe Asn Pro Val Tyr Pro
36   1           5           10           15
38 Tyr Asp Thr Glu Thr Gly Pro Pro Thr Val Pro Phe Leu Thr Pro Pro
39           20           25           30
41 Phe Val Ser Pro Asn Gly Phe Gln Glu Ser Pro Pro Gly Val Leu Ser
42           35           40           45
44 Leu Arg Leu Ser Glu Pro Leu Val Thr Ser Asn Gly Met Leu Ala Leu
45           50           55           60
47 Lys Met Gly Asn Gly Leu Ser Leu Asp Glu Ala Gly Asn Leu Thr Ser
48   65           70           75           80
50 Gln Asn Val Thr Thr Val Ser Pro Pro Leu Lys Lys Thr Lys Ser Asn
51           85           90           95
53 Ile Asn Leu Glu Ile Ser Ala Pro Leu Thr Val Thr Ser Glu Ala Leu
54           100          105          110
56 Thr Val Ala Ala Ala Pro Leu Met Val Ala Gly Asn Thr Leu Thr
57           115          120          125
59 Met Gln Ser Gln Ala Pro Leu Thr Val His Asp Ser Lys Leu Ser Ile
60           130          135          140
62 Ala Thr Gln Gly Pro Leu Thr Val Ser Glu Gly Lys Leu Ala Leu Gln
63 145          150          155          160

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65 Thr Ser Gly Pro Leu Thr Thr Thr Asp Ser Ser Thr Leu Thr Ile Thr
66          165          170          175
68 Ala Ser Pro Pro Leu Thr Thr Ala Thr Gly Ser Leu Gly Ile Asp Leu
69          180          185          190
72 Lys Glu Pro Ile Tyr Thr Gln Asn Gly Lys Leu Gly Leu Lys Tyr Gly
73          195          200          205
75 Ala Pro Leu His Val Thr Asp Asp Leu Asn Thr Leu Thr Val Ala Thr
76          210          215          220
78 Gly Pro Gly Val Thr Ile Asn Asn Thr Ser Leu Gln Thr Lys Val Thr
79 225          230          235          240
81 Gly Ala Leu Gly Phe Asp Ser Gln Gly Asn Met Gln Leu Asn Val Ala
82          245          250          255
84 Gly Gly Leu Arg Ile Asp Ser Gln Asn Arg Arg Leu Ile Leu Asp Val
85          260          265          270
87 Ser Tyr Pro Phe Asp Ala Gln Asn Gln Leu Asn Leu Arg Leu Gly Gln
88          275          280          285
90 Gly Pro Leu Phe Ile Asn Ser Ala His Asn Leu Asp Ile Asn Tyr Asn
91          290          295          300
93 Lys Gly Leu Tyr Leu Phe Thr Ala Ser Asn Asn Ser Lys Lys Leu Glu
94 305          310          315          320
96 Val Asn Leu Ser Thr Ala Lys Gly Leu Met Phe Asp Ala Thr Ala Ile
97          325          330          335
99 Ala Ile Asn Ala Gly Asp Gly Leu Glu Phe Gly Ser Leu Asn Ala Pro
100          340          345          350
102 Asn Ser Asn Pro Leu Lys Thr Lys Ile Gly His Gly Leu Glu Phe Asp
103          355          360          365
105 Ser Asn Lys Ala Met Val Pro Lys Leu Gly Thr Gly Leu Ser Phe Asp
106          370          375          380
108 Ser Thr Gly Ala Ile Thr Val Gly Asn Lys Asn Asn Asp Lys Leu Thr
109 385          390          395          400
111 Leu Trp Thr Thr Pro Ala Pro Ser Pro Asn Cys Arg Leu Asn Ala Glu
112          405          410          415
114 Lys Asp Ala Lys Leu Thr Leu Val Leu Thr Lys Cys Gly Ser Gln Ile
115          420          425          430
117 Leu Ala Thr Val Ser Val Leu Ala Val Lys Gly Ser Leu Ala Pro Ile
118          435          440          445
120 Ser Gly Thr Val Gln Ser Ala His Leu Ile Ile Arg Phe Asp Glu Asn
121          450          455          460
123 Gly Val Leu Leu Asn Asn Ser Phe Leu Asp Pro Glu Tyr Trp Asn Phe
124 465          470          475          480
126 Arg Asn Gly Asp Leu Thr Glu Gly Thr Ala Tyr Thr Asn Ala Val Gly
127          485          490          495
129 Phe Met Pro Asn Leu Ser Ala Tyr Pro Lys Ser His Gly Lys Thr Ala
130          500          505          510
132 Lys Ser Asn Ile Val Ser Gln Val Tyr Leu Asn Gly Asp Lys Thr Lys
133          515          520          525
135 Pro Val Thr Leu Thr Ile Thr Leu Asn Gly Thr Gln Glu Thr Gly Asp
136          530          535          540
138 Thr Thr Pro Ser Ala Tyr Ser Met Ser Phe Ser Trp Asp Trp Ser Gly

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139 545          550          555          560
141 His Asn Tyr Ile Asn Glu Ile Phe Ala Thr Ser Ser Tyr Thr Phe Ser
142          565          570          575
144 Tyr Ile Ala Gln Glu
145          580
148 <210> SEQ ID NO: 2
149 <211> LENGTH: 319
150 <212> TYPE: PRT
151 <213> ORGANISM: Adenovirus type 3
153 <400> SEQUENCE: 2
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155 1          5          10          15
157 Tyr Glu Asp Glu Ser Asn Leu Gln His Pro Phe Ile Asn Pro Gly Phe
158          20          25          30
160 Ile Ser Pro Asp Gly Phe Thr Gln Ser Pro Asn Gly Val Leu Ser Leu
161          35          40          45
163 Lys Cys Val Asn Pro Leu Thr Thr Ala Ser Gly Ser Leu Gln Leu Lys
164          50          55          60
166 Val Gly Ser Gly Leu Thr Val Asn Thr Thr Asp Gly Ser Leu Glu Glu
167 65          70          75          80
169 Asn Ile Lys Val Asn Thr Pro Leu Thr Lys Ser Asn His Ser Ile Asn
170          85          90          95
172 Leu Pro Ile Gly Asn Gly Leu Gln Ile Glu Gln Asn Lys Leu Cys Ser
173          100         105         110
175 Lys Leu Gly Asn Gly Leu Thr Phe Asp Ser Ser Asn Ser Ile Ala Leu
176          115         120         125
178 Lys Asn Asn Thr Leu Trp Thr Gly Pro Lys Pro Glu Ala Asn Cys Ile
179          130         135         140
181 Ile Glu Tyr Gly Lys Glu Asn Pro Asp Ser Lys Leu Thr Leu Ile Leu
182 145          150         155         160
184 Val Lys Asn Gly Gly Ile Val Asn Gly Tyr Val Thr Leu Met Gly Ala
185          165         170         175
187 Ser Asp Tyr Val Asn Thr Leu Phe Lys Asn Lys Asn Val Ser Ile Asn
188          180         185         190
190 Val Glu Leu Tyr Phe Asp Ala Thr Gly His Ile Leu Pro Asp Leu Ser
191          195         200         205
193 Ser Leu Lys Thr Asp Leu Gln Leu Lys Tyr Lys Gln Thr Thr His Phe
194          210         215         220
196 Ser Ala Arg Gly Phe Met Pro Ser Thr Thr Ala Tyr Pro Phe Val Leu
197 225          230         235         240
199 Pro Asn Ala Gly Thr Asp Asn Glu Asn Tyr Ile Phe Gly Gln Cys Tyr
200          245         250         255
202 Tyr Lys Ala Ser Asp Gly Ala Leu Phe Pro Leu Glu Val Thr Val Thr
203          260         265         270
205 Leu Asn Lys Arg Leu Pro Asp Ser Arg Thr Ser Tyr Val Met Thr Phe
206          275         280         285
208 Leu Trp Ser Leu Asn Ala Gly Leu Ala Pro Glu Thr Thr Gln Ala Thr
209          290         295         300
211 Leu Ile Thr Ser Pro Phe Thr Phe Ser Tyr Ile Arg Glu Asp Asp

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215 <210> SEQ ID NO: 3
216 <211> LENGTH: 587
217 <212> TYPE: PRT
218 <213> ORGANISM: Adenovirus type 12
220 <400> SEQUENCE: 3
221 Met Lys Arg Ser Arg Thr Gln Tyr Ala Glu Glu Thr Glu Glu Asn Asp
222   1                      5                      10                      15
224 Asp Phe Asn Pro Val Tyr Pro Phe Asp Pro Phe Asp Thr Ser Asp Val
225                      20                      25                      30
227 Pro Phe Val Thr Pro Pro Phe Thr Ser Ser Asn Gly Leu Gln Glu Lys
228                      35                      40                      45
230 Pro Pro Gly Val Leu Ala Leu Asn Tyr Lys Asp Pro Ile Val Thr Glu
231                      50                      55                      60
233 Asn Gly Thr Leu Thr Leu Lys Leu Gly Asp Gly Ile Lys Leu Asn Ala
234 65                      70                      75                      80
236 Gln Gly Gln Leu Thr Ala Ser Asn Asn Ile Asn Val Leu Glu Pro Leu
237                      85                      90                      95
239 Thr Asn Thr Ser Gln Gly Leu Lys Leu Ser Trp Ser Ala Pro Leu Ala
240                      100                     105                     110
242 Val Lys Ala Ser Ala Leu Thr Leu Asn Thr Arg Ala Pro Leu Thr Thr
243                      115                     120                     125
245 Thr Asp Glu Ser Leu Ala Leu Ile Thr Ala Pro Pro Ile Thr Val Glu
246                      130                     135                     140
248 Ser Ser Arg Leu Gly Leu Ala Thr Ile Ala Pro Leu Ser Leu Asp Gly
249 145                     150                     155                     160
251 Gly Gly Asn Leu Gly Leu Asn Leu Ser Ala Pro Leu Asp Val Ser Asn
252                      165                     170                     175
254 Asn Asn Leu His Leu Thr Thr Glu Thr Pro Leu Val Val Asn Ser Ser
255                      180                     185                     190
257 Gly Ala Leu Ser Val Ala Thr Ala Asp Pro Ile Ser Val Arg Asn Asn
258                      195                     200                     205
260 Ala Leu Thr Leu Pro Thr Ala Asp Pro Leu Met Val Ser Ser Asp Gly
261                      210                     215                     220
263 Leu Gly Ile Ser Val Thr Ser Pro Ile Thr Val Ile Asn Gly Ser Leu
264 225                     230                     235                     240
266 Ala Leu Ser Thr Thr Ala Pro Leu Asn Ser Thr Gly Ser Thr Leu Ser
267                      245                     250                     255
269 Leu Ser Val Ala Asn Pro Leu Thr Ile Ser Gln Asp Thr Leu Thr Val
270                      260                     265                     270
272 Ser Thr Gly Asn Gly Leu Gln Val Ser Gly Ser Gln Leu Val Thr Arg
273                      275                     280                     285
275 Ile Gly Asp Gly Leu Thr Phe Asp Asn Gly Val Met Lys Val Asn Val
276                      290                     295                     300
278 Ala Gly Gly Met Arg Thr Ser Gly Gly Arg Ile Ile Leu Asp Val Asn
279 305                     310                     315                     320
281 Tyr Pro Phe Asp Ala Ser Asn Asn Leu Ser Leu Arg Arg Gly Leu Gly
282                      325                     330                     335
284 Leu Ile Tyr Asn Gln Ser Thr Asn Trp Asn Leu Thr Thr Asp Ile Ser

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285          340          345          350
287 Thr Glu Lys Gly Leu Met Phe Ser Gly Asn Gln Ile Ala Leu Asn Ala
288          355          360          365
290 Gly Gln Gly Leu Thr Phe Asn Asn Gly Gln Leu Arg Val Lys Leu Gly
291          370          375          380
293 Ala Gly Leu Ile Phe Asp Ser Asn Asn Asn Ile Ala Leu Gly Ser Ser
294 385          390          395          400
296 Ser Asn Thr Pro Tyr Asp Pro Leu Thr Leu Trp Thr Thr Pro Asp Pro
297          405          410          415
299 Pro Pro Asn Cys Ser Leu Ile Gln Glu Leu Asp Ala Lys Leu Thr Leu
300          420          425          430
302 Cys Leu Thr Lys Asn Gly Ser Ile Val Asn Gly Ile Val Ser Leu Val
303          435          440          445
305 Gly Val Lys Gly Asn Leu Leu Asn Ile Gln Ser Thr Thr Thr Thr Val
306          450          455          460
308 Gly Val His Leu Val Phe Asp Glu Gln Gly Arg Leu Ile Thr Ser Thr
309 465          470          475          480
312 Pro Thr Ala Leu Val Pro Gln Ala Ser Trp Gly Tyr Arg Gln Gly Gln
313          485          490          495
315 Ser Val Ser Thr Asn Thr Val Thr Asn Gly Leu Gly Phe Met Pro Asn
316          500          505          510
318 Val Ser Ala Tyr Pro Arg Pro Asn Ala Ser Glu Ala Lys Ser Gln Met
319          515          520          525
321 Val Ser Leu Thr Tyr Leu Gln Gly Asp Thr Ser Lys Pro Ile Thr Met
322          530          535          540
324 Lys Val Ala Phe Asn Gly Ile Thr Ser Leu Asn Gly Tyr Ser Leu Thr
325 545          550          555          560
327 Phe Met Trp Ser Gly Leu Ser Asn Tyr Ile Asn Gln Pro Phe Ser Thr
328          565          570          575
330 Pro Ser Cys Ser Phe Ser Tyr Ile Thr Gln Glu
331          580          585

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**VERIFICATION SUMMARY**

DATE: 01/13/2006

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TIME: 10:13:28

Input Set : N:\DA\PTO.DA.txt

Output Set: N:\CRF4\01132006\J563414.raw

L:16 M:270 C: Current Application Number differs, Replaced Current Application Number

L:20 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD

L:23 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD